

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims 1-26 (Cancelled)

Claim 27 (Currently amended) In combination, a swage fastening system for an assembly of workpieces, comprising:

a pin, the pin having an enlarged head, a smooth neck, and a threaded body;

a generally cylindrical one-piece collar swaged over the threaded body of the pin, the collar having a cylindrical main body portion with an external surface and a main central bore, a smaller diameter outside edge and a larger diameter base portion flaring smoothly outwardly from the main cylindrical body portion to form a concave rounded shoulder in the external surface of the swage collar, said base portion having an internal shoulder formed in the main central bore so as to form a seal receiving guide, the internal shoulder having a diameter that is larger than the diameter of the threaded body, the internal shoulder having a surface defining a continuous annular well, and the base portion having a continuous, annular flat even surface adapted to contact said assembly of workpieces;

a sealing ring having an external diameter no larger than the diameter of the internal shoulder of the base portion of the swage collar, so as to be disposed entirely within the well of the internal shoulder and receiving the pin; and

a swage tool ~~having an anvil with~~ received in and engaged with an anvil, said swage tool having an entrance aperture having an inside diameter slightly larger than said smaller diameter outside edge of said swage collar, and said swage tool having an interior bore which necks down smoothly to a relatively narrow convex rounded surface engaging said external surface of said cylindrical main body portion of said swage collar and said concave rounded shoulder in the

external surface of the swage collar, said anvil having a top end and a bottom end, whereby said swage tool mechanically forces the collar over the pin affixing a workpiece between the enlarged head and the collar with the sealing ring flush with the base portion when installed on said workpiece, tightly sealing the sealing ring entirely within the well of the internal shoulder of the collar between the internal shoulder of the collar and the shaft of the fastener in engagement with the pin and deforming and forming a fluid impermeable seal, said swage tool including an outer nut rotatably engaged with said anvil, and an outer sleeve threadably engaged with said nut, said outer sleeve provided over said outer nut and extending to the bottom end of said anvil, and said anvil being disposed within said outer sleeve.

Claim 28 (Original) The swage fastening system of Claim 27, wherein the collar is made of a metal.

Claim 29 (Original) The swage fastening system of Claim 28, wherein the swage collar is made of aluminum.

Claim 30 (Original) The swage fastening system of Claim 28, wherein the swage collar is made of titanium.

Claim 31 (Original) The swage fastening system of Claim 27, wherein the swage collar is made of a deformable material.

Claim 32 (Original) The swage fastening system of Claim 27, wherein the sealing ring is made of tetrafluoroethylene.

Claim 33 (Original) The swage fastening system of Claim 27, wherein the pin includes an unthreaded section, and the sealing ring interfaces with the unthreaded section of the pin.

Claim 34 (Original) The swage fastening system of Claim 27, wherein the pin includes an unthreaded section, and the sealing ring interfaces with the threaded body and the unthreaded section of the pin.